Determination of Public Land (Rangeland) Health for 65036 CARL E COOPER

The Record of Decision (ROD) for the New Mexico Standards for Public Land Health and Guidelines for Livestock Grazing Management (dated January 2001) adopted three Standards for Public Land Health. These are (1) Upland Sites Standard, (2) Biotic Communities, Including Native, Threatened, Endangered, and Special Status Species Standard and (3) Riparian Sites Standard.

The ROD also established a process for the BLM Field Offices for the implementation. Through a public participation process, the Roswell Field Office developed and adopted indicators to use in conjunction with existing monitoring data to assess these Standards.

Field assessment worksheets and other available data which evaluate the local indicators, were completed for this allotment. Based on the assessments, it is my determination that the Public Lands within the Carl E Cooper Allotment #65036 meet the Upland Sites Standard and (2) Biotic Communities, Including Native, Threatened, Endangered, and Special Status Species Standard. There are no Public Land riparian areas on this allotment, therefore this Standard will not addressed.

/s/ T. R. KREAGER

09/22/2003

Assistant Field Manager

Date

Standards of Public Land Health Evaluation of 65036 CARL E COOPER Allotment [08/11/2003]

The Roswell Field Office conducted rangeland health assessments at six study sites within the CARL E COOPER Allotment #65036. The assessments looked at the Soil/Site Stability, Hydrologic Function and Biotic Integrity indicators within the vicinity of each study site. Existing monitoring data was incorporated into and in support of the field assessment. The summary of each assessment is attached and shown in the following table.

Study Area or		UPLAND			BIOTIC		F	RIPARIAN	
Assessment Area	Meets	an	Does Not Meet	Meets	an	Does Not Meet	Meets	Monitor an Indicator	Does Not Meet
65036-EAST- D088 (*)	X			X			N/A		
65036- FRAZIER GYP SW-D086	X			X			N/A		
65036- FRAZIER LO- SW-D087 (*)	X			X			N/A		
65036- REGISTERED- D085 (*)	X			X			N/A		
65036-RIVER NW #1-D084 (*)	X			X			N/A		
65036-RIVER NW #2-N006 (*)	X			X			N/A		

Twenty-two (22) indicators for Rangeland Health were evaluated for the Carl E Cooper allotment; 10 of these assessed soil/site stability, 11 assessed hydrologic functions and 13 assessed biotic integrity. These qualitative assessments along with quantitative information from long-term monitoring studies on six study areas on the allotment were utilized to assess the rangeland health of the public land within the allotment. These quantitative evaluations were performed by the Roswell Field office staff starting in the early 1980's. These included ground and vegetative cover and composition, production, frequency, and ecological condition as calculated from these collections which have been scheduled approximately every 5 years.

The Carl Cooper allotment lies along U.S. Highway 70 approximately 18 miles east of Roswell. The allotment slopes gradually down towards the Pecos River and has the Bob Crosby draw traversing through three pastures. This draw is important for drainage and for wildlife habitat. Much of the draw is invaded by dense stands of salt cedar, but is still providing cover for wildlife species. A spring exists on private land within the draw which flows on Public Lands.

This allotment has ongoing oil and gas production and drilling, hunting, recreation use, and livestock grazing. The Haystack Mountain Off Highway Vehicle area is located just north of the allotment and the Santa Fe railroad forms the southern boundary.

Grazing deferment is accomplished through rotational grazing through the pastures.

This allotment has been an active oil and gas (primarily gas) field for an exteded period of time. Multiple roads, pipelines drilling pads, and other facilities exist for the gas production. The Railroad on the southern end of the allotment contributes to channelized water flows and has led to accelerated erosion in the Bob Crosby draw area. Two county maintained roads are also located on this allotment that channel water and increase water velocities. These activities have contributed to the overall condition of the land, particularly influencing the water flow patterns and the creation of gullies.

Overall, the allotment is in a stable state. Other than physical disturbaces such as new roads or pipelines, the largest threat is that of invasive plants. The entire area has varying densities of mesquite and the drainages contain dense stands of salt cedar. One old mesquite treatment, in the Northwest Pasture attempted to resdtore the herbaceous component. This treatment area does have a lower density of mesquite, but other invasives such as snakleweed are well established. Mesquite treatments should respond favorably because adequate seed sorces for preferred vegetation exists.

Treating the invasive mesquite would benefit the area by allowing herbaceous species such as preferred grasses to become established. Many of the areas would benefit by increased water infiltration and soil moisture retention due to the increased herbaceous cover.

The area evaluated in NW#2 was heavily influenced by roads and pipelines. Severe gully formation is occuring in old road locations and the site is not able to retain the precipitation very effectively. This site would respond well to reclaiming unused roads, and treating mesquite.

In the professional opinion of the Assessment Team, the public land within the allotment meet the Upland and Biotic Standards. The Riparian Standard does not apply to this area.

The (*) indicates that the assessment had one or more indicator(s) rated moderate/extreme or extreme. These indicators are:

• Water Flow Patterns

- Bare Ground
- Gullies
- Plant Community Composition and Distribution Relative to Infiltration and Runoff
- Functional/Structural Groups
- Invasive Plants

These indicators by themselves are not enough to rate the site as not meeting a standard but may warrant future monitoring.

Recommendations: Mesquite treatment should be considered in the majority of this allotment. Mesquite treatments will have to be coordinated with the private landowner, due to land status patterns and livestock grazing rotations. Adequate rest to allow vegetative recovery will have to be ensured to establish root systems of the responding herbaceous species. The long term use of any treated area should include periodic growing season deferment to allow the favorable vegetation to form and set seed.

The current grazing practices appear to be in concert with vegetative production and precipitation patterns, no changes are recommended. Changes would be necessary if mesquite treatments are planned in the future to ensure treatment area recovery.

Wildllife and TE - Habitat can be improved by reducing the density of mesquite and increasing ground cover. Need to continue monitoring Bob Crosby Draw. Consider joint projects with Bitter Lake National Willdlife Refuge in the event of large scale mesquite or saltcedar control (chemical, mechanical or prescribed fire). Demand the rehabilitation or reconstruction of problem oil and gas roads as they are contuning to degrade habitat through gulleying. Minimize right-of-way disturbances and demand immediate reseeding efforts.

RFOs	Uplan	d and Biotic Standa	rd Ass	essment Su	ımmary `	Wor	kshe	et
		SITE 6503	6-EAS	T-D088				
Legal Lan	d Desc	SWNW 26 0080S 0260 Meridian 23)E		Acrea	ige 3	61	
I	Ecosite	042CY003NM LOAM SAND SD-3	Y		Photo Tak	en N	1	
Wat	ershed	13060003220 FILLMO	ORE					
Obs	servers	SCHMIDT/BAGGAO		Obse	ervation Da	ate 0	8/14/2	2003
	ty Soil Survey	NM644 CHAVES NO	RTH	Sc	oil Var/Tax	ad		
Soil Ma	ıp Unit	PaA		Soil	Taxon Nai	me P	AJAR	RITO
Texture	e Class	NM644 LFS			Soil Pha	ase	AJAR	OTIS
Texture M	odifier	NM644 LOAMY FINE SAND	Ξ					
	ed Avg Annual oitation			Observed Avg Growing Season Precipitation		- 11		
NOAA A	Annual oitation		NOAA Growing Season Precipitation		- 11		7.05	
1	A Avg Annual oitation		12.17	NOAA Avg Growing Season Precipitation			9.81	
		Grazing use on this allo livestock present in the						
Part 2. Attı	ributes	and Indicators						
				ure from Eco ption/Ecolog	_		Areas	
Attribute	Indica	tors	Extrem	Moderate to Extreme	Moderate		tht to lerate	None to Slight
S H	Rills				X			
Comments:								
SH	Water	Flow Patterns		X				
Comments:	culver	numerous than expected t runs into a gully by dir soils are susceptible to	recting f	lows. Pattern				
SH	Pedest	als and/or Terracettes			X			

Comments:						
SH	Bare Ground		X			
Comments:	Actual value on the ground is l	higher thar	ı last moı	nitoring da	ta indicate	S,
SH	Gullies			X		
Comments:	Inflenced by railroad, headcuts	s originate	at Right	of Way cu	lverts.	
S	Wind-scoured, Blowouts, and/or Deposition Areas			X		
Comments:	Decent vegetation present in in	nterspaces	of mesqu	ite.		
Н	Litter Movement				X	
Comments:						
SHB	Soil Surface Resistance to Erosion				X	
Comments:	Sandy soils, leaning towards n	noderate.				
SHB	Soil Surface Loss or Degradation			X		
Comments:	interspaces show soil losses, m	nesquite du	ines indic	ate soil m	ovement.	
Н	Plant Community Composition and Distribution Relative to Infiltration and Runoff			X		
Comments:	Mesquite invasion, less herbac patterns.	eous veget	tation. W	ater move	ment (runc	off)
SHB	Compaction Layer					X
Comments:	Sandt soils.					
В	Functional/Structural Groups			X		
Comments:	Decent mix of grasses present. oak, we strongly disagree.	The range	site call	s for Blues	stem and sl	ninnery
В	Plant Mortality/Decadence			X		
Comments:	Drought influenced.					
НВ	Litter Amount				X	
Comments:						
В	Annual Production				X	
Comments:	Drought influenced.					
В	Invasive Plants		X			
Comments:	High densities of mesquite.					
В	Reproductive Capability of Perennial Plants				X	

Comments:									
S	Physical/Chemical/Biological Crusts			X					
Comments:	Lack of crusts in interspaces ()	physical).							
В	Wildlife Habitat			X					
Comments:	This area is somewhat of an ecotone between grasslands and Chihuahuan desert mixed shrub grasslands. It has been affected by the Atchison Topeka and Santa Fe Railroad right-of-way and past high livestock grazing use. The habitat is now a shrubland type with mesquite dominating most of the area.								
В	Wildlife Populations				X				
Comments:	To specific wildlife population information. Species of concern include mule eer and upland game birds. A shift toward wildlife species that prefer a nore shrubby component has occurred.								
В	Special Status Species Habitat					X			
Comments:	None known to occur.								
В	Special Status Species Populations					X			
Comments:	None known to occur.								
Part 3. Sun	nmary								
attributes be	Summary - Each of the indicate low. An indicator is placed in a Standard Attributes.								
Standard Attribute		Extreme	Moderate to Extreme	Moderate	Slight to Moderate	None to Slight			
S	Soil	0	2	6	1	1			
Н	Hydrologic	0	2	5	3	1			
П									

B. Attribute Summary. In this table, the Extreme and Extreme to Moderate columns in the table above are merged for the *Does not Meet* column, Moderate becomes *May Need More Info*, and Slight to Moderate and None to Slight merge to form the *Meets* columns. Values from the table are summarized below. Space is provided for rationale of the determination. This space should most certainly be used when the determination by the ID team conflicts with the summarized values. Provide the sources of information that lead to the determination. X out the appropriate box for each attribute to denote final agreed upon determination by the ID team.

Attribute	Rationale	Does Not Meet	May Need More Info	Meets
Soil	This site will meet the standards, many of the items checked that are moderate or moderate to extreme were leaning to the moderate side. Many of the marginal calls were a result of the changes that have occured due to the railroad right-of-way. The water flows have been channelized which increases water velocity and causes erosion. Bare ground amounts are higher than expected and the area shows evidence of past soil loss. An explanation for the change in vegetation cover is explained by the increased density of mesquite. The mesquite is crowding other vegetation and utilizing soil moisture which prohibits herbaceous vegetative growth.	2	6	2
Hydrologic	Please see rational for the uplands, all comments apply to the hydrologic functions as well.	2	5	4
Biotic		1	4	8

Site Notes: Good candidate for mesquite control, adequate herbaceous species present for seed and tillering sorce.

The Railroad definitely impacts this area by channelizing water.

The Ecological Range Site (ESD) description, Loamy Sand SD-3, associated with this site is in error. The ESD vegetation calls for plant species that do not occur in the area. Placing this site to a Sandy SD-3 would more accurately describe this site.

Wildlife and TE - A small blacktailed prairie dog colony was found in the southwest corner of the pasture on private land, on a different soil type.

RFOs	Uplan	d and Biotic Standar	rd Asse	essment Si	ımmary	Workshe	eet
		SITE 65036-FRAZ	ZIER (GYP SW-I	D086		
Legal Lar	nd Desc	NENE 29 0080S 0260E Meridian 23	Ξ	A	creage 0		
	Ecosite	070BY066NM GYP UPLAND CP-2		Photo	Taken N		
Wa	tershed	13060003220 FILLMORE					
Ob	servers	SCHMIDT/BAGGAO		Observation	n Date 07/	14/2003	
Cour		NM644 CHAVES NORTH		Soil Var/	Taxad		
Soil M	ap Unit	HMA		Soil Taxon	Name HC	DLLOMEX	-
Texture Class		NM644 L		Soil	Phace	OLLOMEX EVES-MII	
Texture M	Iodifier	NM644 LOAM,DRY					
Observed Avg Annual Precipitation				Observe Growing S Precip	Season		
			NOAA Gr ason Precip	• II		7.05	
	AA Avg Annual pitation	12	2.17	NOAA Growing S Precip			9.81
		Livestock currently wit Oil and gas facilities ar further O&G activity.		•	rea seems	to be active	e for
Vegetation is in good condition considering the drought conditi					ght conditi	ons.	
Part 2. Att	ributes	and Indicators					
				re from Ecotion/Ecolog			
Attribute	Attribute Indicators E		Extrem	Moderate to Extreme	Moderate	Slight to Moderate	None to Slight
S H	Rills						X
Comments:	1						

SH	Water Flow Patterns				X	
Comments:						
SH	Pedestals and/or Terracettes			X		
Comments:	common in areas, wind, water	flows.				
SH	Bare Ground				X	
Comments:						
SH	Gullies			X		
Comments:	Inflenced by roads, draining to	Bob Cro	sby draw.			
S	Wind-scoured, Blowouts, and/or Deposition Areas				X	
Comments:	Soil Movement due to wind, the	nis is exp	ected in the	gyp sites.		
Н	Litter Movement					X
Comments:	common litter, appears to stay	in place.				
SHB	Soil Surface Resistance to Erosion				X	
Comments:						
SHB	Soil Surface Loss or Degradation					X
Comments:						
Н	Plant Community Composition and Distribution Relative to Infiltration and Runoff					X
Comments:	Vegetation is healthy and aburbalance.	ndant. So	ne opuntia	and snake	weed, but	is in
SHB	Compaction Layer					X
Comments:	Some roads, trails, and oil and	gas facil	ities. Overa	ıll little evi	dence.	
В	Functional/Structural Groups					X
Comments:	See notes from Community co	mpositio	n and distri	bution.		
В	Plant Mortality/Decadence				X	
Comments:	Some evidence of mortality to	drought,	but only sl	ightly elev	ated.	
НВ	Litter Amount					X
Comments:	Litter exceed expectations.					
В	Annual Production				X	
Comments:	Area must have recieved rains monitoring.	last grow	ing season	, shows be	tter than 0	1
В	Invasive Plants				X	

	Snakeweed in disturbed areas.					
В	Reproductive Capability of Perennial Plants					X
Comments:						
S	Physical/Chemical/Biological Crusts					X
Comments:						
В	Wildlife Habitat					X
Comments:	This pasture is a diverse assent inclusions and gravelly hills. It than the ubiquitous mesquite of to the east. The upper watershifteness a definite drainage in the pockets of saltcedar but no known.	The pasture on the more of Bob e southwe	re is in relare loamy since Crosby Dest border of	tively good ites in the p raw is in the of the pastu	d condition pasture, monis pasture	other ostly
В	Wildlife Populations					X
Comments:	No specific wildlife population include pronghorn antelope, meterrestiral wildlife species may	nule deer a	and upland	game bird	ls. Non gar	
В	Special Status Species Habitat					X
Comments:	None known to occur.					
В	Special Status Species Populations					X
Comments:	None known to occur.					
Part 3. Sur	nmary					
A. Indicator attributes be	nmary r Summary - Each of the indicatelow. An indicator is placed in a Standard Attributes.					
A. Indicator attributes be	r Summary - Each of the indica elow. An indicator is placed in					
A. Indicator attributes be each of the Standard	r Summary - Each of the indica elow. An indicator is placed in	a category	(columns Moderate to) above an	d summed Slight to	None to
A. Indicator attributes be each of the Standard Attribute	r Summary - Each of the indica elow. An indicator is placed in a Standard Attributes.	Extreme	Moderate to Extreme) above an	Slight to Moderate	None to Slight

More Info, and Slight to Moderate and None to Slight merge to form the Meets columns. Values from the table are summarized below. Space is provided for rationale of the determination. This space should most certainly be used when the determination by the ID team conflicts with the summarized values. Provide the sources of information that lead to the determination. X out the appropriate box for each attribute to denote final agreed upon determination by the ID team.

Attribute	Rationale	Does Not Meet	May Need More Info	Meets
Soil		0	2	8
Hydrologic		0	2	9
Biotic		0	0	13

Site Notes: Gyp site exceeds expectations, good vegetation, litter components.

This assessment area and study site is located within a complex of gyp and loamy soils. The two are intermingled and difficult to isolate for evaluation purposes. Two assessments were completed for this area, one for gyp, and one for loamy. The gyp assessment was completed at the long term monitoring plot.

Wildlife and TE - the potential for blacktailed prairie dog colonies exist. Oil and gas activity may be increasing in the future, futher impacting relatively undisturbed wildlife habitat.

This pasture is all private land.

RFOs	Upland	d and Biotic Standa	rd A	sses	sment Su	ımma	ry	Workshe	eet
		SITE 65036-FRA	ZIE	CR L	O-SW-D	087			
Legal Lan	d Desc	NENE 29 0080S 02601 Meridian 23	Е		Ac	creage	0		
	Ecosite	042CY007NM LOAM SD-3	Y		Photo	Taken	N		
Wa	tershed	13060003220 FILLMORE							
Ob	servers	SCHMIDT/BAGGAO		(Observation	n Date	07/	14/2003	
		NM644 CHAVES NORTH			Soil Var/Taxad				
Soil Ma	ap Unit	HMA		S	oil Taxon	Name	НО	LLOMEX	
Texture Class		NM644 L					HOLLOMEX- REEVES-MILNER		
Texture M	Iodifier	NM644 LOAM,DRY							
	ed Avg Annual oitation				Observe Growing S Precipi	eason			
NOAA Precij	Annual oitation	11	1.39		NOAA Greson Precipi	-	7.05		
	A Avg Annual pitation		2.17		NOAA Growing S Precipi	eason	9.81		
		Livestock were present completed.	t in th	ne pa	sture wher	the as	sesi	ment was	
Disturban Anim	ces and al Use:	Oil and gas pipelines and roads are found in the area.							
		Wildlife - excessive cle pipelines occurring in a		g of	rights-of-w	ay for	oil	and gas	
Part 2. Attr	ibutes	and Indicators							
		Departure from Ecological Site Description/Ecological Reference Areas							
Attribute	Indicat	ors	Extr		Moderate to Extreme	Moder	rate	Slight to Moderate	None to Slight

X

SH

Rills

Comments:						
SH	Water Flow Patterns				X	
Comments:						
SH	Pedestals and/or Terracettes			X		
Comments:						
SH	Bare Ground				X	
Comments:	As called for in the Range site	descripti	on			
SH	Gullies				X	
Comments:						
S	Wind-scoured, Blowouts, and/or Deposition Areas					X
Comments:						
Н	Litter Movement				X	
Comments:	wind/water moving fine litter					
SHB	Soil Surface Resistance to Erosion				X	
Comments:						
SHB	Soil Surface Loss or Degradation				X	
Comments:	Shows past soil loss					
Н	Plant Community Composition and Distribution Relative to Infiltration and Runoff			X		
Comments:	mesquite, burrograss and snake vegetative cover	eweed ele	evated, other	erwise has	decent	
SHB	Compaction Layer					X
Comments:	A few trails and roads present	in area.				
В	Functional/Structural Groups			X		
Comments:	Some grass species missing, by	urrograss	and mesqu	ite increas	sed.	
В	Plant Mortality/Decadence				X	
Comments:	Black grama is suffering due to	o drought	·•			
НВ	Litter Amount				X	
Comments:	This is based on 01 monitoring	g, current	visual app	ears to be	less litter.	
В	Annual Production			X		
Comments:	Monitoring site on transitional	area, not	truly repre	esentative	of site.	
В	Invasive Plants		X			

Comments:	Mesquite invading and decrea	sing herba	aceous spe	cies.		
В	Reproductive Capability of Perennial Plants				X	
Comments:	due to invasive plants.					
S	Physical/Chemical/Biological Crusts				X	
Comments:						
В	Wildlife Habitat			X		
Comments:	A grassland habitat type influerealtively small inclusion but a mesquite invasion.	-				
В	Wildlife Populations			X		
Comments:	No specific wildlife population pronghorn antelope, mule deed variety of terrestrial nongame	r and upla				
В	Special Status Species Habitat					X
Comments:	None known to occur.					
В	Special Status Species Populations					X
Comments:	None known to occur.					
attributes be	nmary Summary - Each of the indica elow. An indicator is placed in Standard Attributes.					
Standard Attribute		Extreme	Moderate to Extreme	Moderate	Slight to Moderate	None to Slight
S	Soil	0	0	1	6	3
S H	Soil Hydrologic	0	0	2	7	2

B. Attribute Summary. In this table, the Extreme and Extreme to Moderate columns in the table above are merged for the *Does not Meet* column, Moderate becomes *May Need More Info*, and Slight to Moderate and None to Slight merge to form the *Meets* columns. Values from the table are summarized below. Space is provided for rationale of the determination. This space should most certainly be used when the determination by the

ID team conflicts with the summarized values. Provide the sources of information that lead to the determination. X out the appropriate box for each attribute to denote final agreed upon determination by the ID team.

Attribute	Rationale	Does Not Meet	May Need More Info	Meets
Soil		0	1	9
Hydrologic		0	2	9
Biotic		1	4	8

Site Notes: This area is welll suited for a mesquite control project. The interspaces between mesquite are healed over with good vegetative cover.

Some oil and gas roads and pipelines in the area, with expectations of increased activity.

This assessment is part of the frazier pasture which is a complex of gyp and loamy soils. This site was assessed approximately 1/2 mile east of the long tem monitoring plot. the area is primarily loam and better represented the loamy component of the pasture.

This pasture is all private land.

		OIDE (FAA) DI		DED DA	0.5		
		SITE 65036-RI	EGISTE	CRED-DO	85		
Legal L	and Desc	NWSE 15 0080S 020 Meridian 23	60E		Acre	age 639	
	Ecosite	042CY003NM LOA SAND SD-3	MY		Photo Taken		
W	atershed	13060003220 FILLN	MORE				
(Observers	SCHMIDT/BAGGA	HMIDT/BAGGAO			Date 08/15	/2003
County So	il Survey	NM644 CHAVES N	ORTH	S	oil Var/Ta	xad	
Soil I	Map Unit	PaA		Soi	l Taxon Na	me PAJA	RITO
Text	ure Class	NM644 LFS			Soil Ph	nase PAJA	RITO
Texture	Modifier	NM644 LOAMY FII SAND	M644 LOAMY FINE AND				
Obser Annual Pred	rved Avg cipitation				Avg Grown Precipitat	• II	
	A Annual cipitation		11.39		rowing Sea Precipitat	III.	7.05
NOAA Av Pre	g Annual cipitation		12.17		NOAA Avg Growing Season Precipitation		9.81
Ani	mal Use:	Area shows the influ dominant grass, othe Active oil and gas fig	r species	were prese	nt.		
Part 2. Attı	ributes ar	nd Indicators					
				re from Eco tion/Ecolog	-		
Attribute	Indicator	rs	Extreme	Moderate to Extreme	Moderate	Slight to Moderate	None to Slight
SH	Rills						X
Comments:							
SH	Water Fl	ow Patterns					X
Comments:	Sandy						
SH	Pedestals	s and/or Terracettes			X		
Comments:							
SH	Bare Gro	ound		X			

RFOs Upland and Biotic Standard Assessment Summary Worksheet

Comments:	exceeds upper end of ecologic have serious reservations about	_			ever, obse	rvers
SH	Gullies				X	
Comments:						
S	Wind-scoured, Blowouts, and/or Deposition Areas			X		
Comments:						
Н	Litter Movement			X		
Comments:	Litter is more prevalent around	d mesquit	e and large	er plants.		
SHB	Soil Surface Resistance to Erosion			X		
Comments:						
SHB	Soil Surface Loss or Degradation			X		
Comments:	Overall plant canopy reduced,	bare grou	ınd influen	ces soil lo	SS.	
Н	Plant Community Composition and Distribution Relative to Infiltration and Runoff			X		
Comments:	Mesquite influenced.					
SHB	Compaction Layer				X	
Comments:	Sandy site, some trailing, oil a	nd gas ro	ads& pipel	ines.		
В	Functional/Structural Groups		X			
Comments:	Mesquite and three awns domi This judgement should lean to			thers in lo	wer densit	ties.
В	Plant Mortality/Decadence					X
Comments:	All plants are alive, no real sig	ns of dea	d or dying	plants.		
НВ	Litter Amount			X		
Comments:	Bottom end of expected range	from eco	logical ran	ge site des	cription.	
В	Annual Production			X		
Comments:	Primary grass is three-awn.					
В	Invasive Plants		X			
Comments:	Mesquite and three awn in hig	h abundaı	nce.			
В	Reproductive Capability of Perennial Plants				X	
Comments:	soil capping and lack of organ capability	ic matter	may lower	seed germ	nination	

S	Physical/Chemical/Biological Crusts				X			
Comments:	Physical crust, soil capping.							
В	Wildlife Habitat				X			
Comments:	A hilly mixed desert shrub typ Gravelly hill inclusions. Increadegrading what was just recen	asing oil a	and gas we	lls and righ	nts-of-way	nages.		
В	Wildlife Populations				X			
Comments:	deer and upland game birds. T terrestrial nongame wildlife sp	No specific wildlife population information. Species of concern include mule deer and upland game birds. The diverse niches provide for a variety of terrestrial nongame wildlife species. Increasing disturbances in the area (oil and gas, and improved access) may impact habitat and wildlife populations in area.						
В	Special Status Species Habitat					X		
Comments:	None known to occur.							
В	Special Status Species Populations					X		
Comments:	None known to occur.							
Part 3. Sun	nmary							
attributes be	r Summary - Each of the indicate low. An indicator is placed in Standard Attributes.							
Standard Attribute		Extreme	Moderate to Extreme	Moderate	Slight to Moderate	None to Slight		
S	Soil	0	1	4	3	2		
Н	Hydrologic	0	1	6	2	2		
11	, -							

B. Attribute Summary. In this table, the Extreme and Extreme to Moderate columns in the table above are merged for the *Does not Meet* column, Moderate becomes *May Need More Info*, and Slight to Moderate and None to Slight merge to form the *Meets* columns. Values from the table are summarized below. Space is provided for rationale of the determination. This space should most certainly be used when the determination by the ID team conflicts with the summarized values. Provide the sources of information that lead to the determination. X out the appropriate box for each attribute to denote final agreed upon determination by the ID team.

Attribute	Rationale	Does Not Meet	May Need More Info	Meets
Soil	Several of the upland and Biotic indicators are in the moderate range. These calls were generated around the fact that mesquite densities have increased and the prevalant herbaceous species is three-awn.	1	4	5
Hydrologic		1	6	4
Biotic		2	4	7

Site Notes: Mesquite is dominant, and is well suited to treatment. Three awn is the most prevalent grass, however other species do occur.

Influence of drought is also evident in the area.

This site is a good candidate for brush control, adequate seed source available for favorable recovery.

RFOs U	pland and Biotic Standard	Assessment Summa	ry Worksheet
	SITE 65036-RIV	ER NW #1-D084	
	d SESE 18 0080S 0260E c Meridian 23	Acreage	1048
Ecosit	e 042CY004NM SANDY SD-	Photo Taken	N
Watershe	d 13060003220 FILLMORE		
Observe	SCHMIDT/BAGGAO	Observation Date	08/14/2003
County So Surve	NM644 CHAVES NORTH	Soil Var/Taxad	
Soil Map Un	it PBB	Soil Taxon Name	PAJARITO
Texture Class	NM644 FSL	Soil Phase	PAJARITO- BLUEPOINT
	re NM644 FINE SANDY LOAM,HU		
Observed Av Annua Precipitatio		Observed Avg Growing Season Precipitation	
NOA. Annua Precipitatio	al 11.39	NOAA Growing Season Precipitation	7.05
NOAA Av Annua Precipitatio	12.17	NOAA Avg Growing Season Precipitation	
This area was treated for mesquite 20 plus years ago. No livestoc observed during the assessment. Active oil and gas field, roads, pipelines and pads present. Wildlife - Habitat and wildlife species disturbance and harrassment moderate due to the proximity of the area to Roswell and the ease access throughout the pasture. Major pipeline and power line right way are found in the area. Aztec Road, and several oil and gas rothave created some impact to the lands through storm runoff collete and above the road and channeling flows that create gullies. Part 2. Attributes and Indicators			
		eparture from Ecological	Site
		escription/Ecological Re	
Attribute I	ndicators	xtreme Moderate Moder	ate Slight to None

			to Extreme		Moderate	to Slight
SH	Rills					X
Comments:						
SH	Water Flow Patterns				X	
Comments:			<u>'</u>			
SH	Pedestals and/or Terracettes			X		
Comments:						
SH	Bare Ground				X	
Comments:						
SH	Gullies		X			
Comments:	Roads, pipelines and drill pads	heavily	influence a	rea by cha	nnelizing v	vater.
S	Wind-scoured, Blowouts, and/or Deposition Areas				X	
Comments:	Some mesquite hummocking,	very little	active blo	wout.		
Н	Litter Movement					X
Comments:	Staying in place.					
SHB	Soil Surface Resistance to Erosion					X
Comments:	Sandy					
SHB	Soil Surface Loss or Degradation				X	
Comments:	Shows past degredation, current	ntly stable	e.			
Н	Plant Community Composition and Distribution Relative to Infiltration and Runoff				X	
Comments:	Mesquite prevelant where not	treated.				
SHB	Compaction Layer					X
Comments:	Compaction around roads, pad	ls, pipelin	es and trai	ls.		
В	Functional/Structural Groups				X	
Comments:	Snakeweed in high densities.					
В	Plant Mortality/Decadence					X
Comments:	Black grama mortality inflence	ed by dro	ught.			
НВ	Litter Amount					X
Comments:						

В	Annual Production				X				
Comments:	Drought influenced.								
В	Invasive Plants			X					
Comments:	snakeweed and some mesquite.								
В	Reproductive Capability of Perennial Plants				X				
Comments:									
S	Physical/Chemical/Biological Crusts				X				
Comments:									
В	Wildlife Habitat				X				
Comments:	A grassland habitat type with a many years ago. the landform includes the breaks and draina riparian habitat and a spring. The because of the steep walls, but the draw.	gently slo ges. Also he draw	pes west to includes E is relatively	oward the Bob Crosby uy inaccess	Pecos Rive Draw wit sible to live	er and h its estock			
В	Wildlife Populations				X				
Comments:	No specific wildlife population deer and a variety on nongame invertebrates and fish have been	e terrestria	al wildlife	species. Su	rveys of	mule			
В	Special Status Species Habitat					X			
Comments:	None known to occur. Potentia Crosby Draw.	al habitat	for the Pec	cos sunflow	ver exists i	n Bob			
В	Special Status Species Populations					X			
Comments:	None known to occur.								
Part 3. Sun	nmarv								
A. Indicator attributes be	Summary - Each of the indicate elow. An indicator is placed in a Standard Attributes.								
Standard Attribute		Extreme	Moderate to Extreme	Moderate	Slight to Moderate	None to Slight			
S	Soil	0	1	1	5	3			
-									

В	Biotic	0	0	1	6	6

B. Attribute Summary. In this table, the Extreme and Extreme to Moderate columns in the table above are merged for the *Does not Meet* column, Moderate becomes *May Need More Info*, and Slight to Moderate and None to Slight merge to form the *Meets* columns. Values from the table are summarized below. Space is provided for rationale of the determination. This space should most certainly be used when the determination by the ID team conflicts with the summarized values. Provide the sources of information that lead to the determination. X out the appropriate box for each attribute to denote final agreed upon determination by the ID team.

Attribute	Rationale	Does Not Meet	May Need More Info	Meets
Soil	Of concern at this site is soil erosion caused by existing roads. The area was treated for mesquite in the early 1980's but the mesquite has become established again.	1	1	8
Hydrologic		1	1	9
Biotic		0	1	12

Site Notes: This area is within an old mesquite treatment.

Snakeweed is common in the area, black grama mortality high due to drought.

Wildlife - Bob Crosby Spring is located in Northwest Pasture. This draw and associated riparian habitat was not evaluated during the field visit and is not included in this assessment. The spring was surveyed for aquatic invertebrates by the NMNHP in the year 2000 through a BLM cooperative agreement. The water quality was described as organically enriched. No evidence of livestock were found at the spring during the survey. No Pecos sunflower were observed although the spring is potential habitat for this threatened species. The drainage west of the spring on public land is dominated by dense saltcedar. Many invertebrates were observed using the pool.

RFOs U	plan	nd and Biotic Standar	d Ass	essment Su	ımmary	y Workshe	et
		SITE 65036-RI	VER N	NW #2-N0	06		
Legal Land I	1ecc	NENE 24 0080S 0250E Meridian 23		1	Acreage	1047	
Eco	osite	042CY004NM SANDY SD-3		Photo	o Taken	N	
Waters	shed	13060003220 FILLMOR	EΕ				
Obser	vers	SCHMIDT/BAGGAO		Observati	on Date	08/15/2003	
County Su:	Soil rvey	NM644 CHAVES NOR	ГН	Soil Va	r/Taxad		
Soil Map	Unit	PBB		Soil Taxo	n Name	PAJARITO	
Texture C	Class	NM644 FSL		So	11 Dhagal	PAJARITO- BLUEPOIN	
Texture Mod	lifier	NM644 FINE SANDY LOAM,HU					
Observed An Precipita	nual			Observed Avg Growing Season Precipitation			
NOAA An Precipita		11	.39	NOAA C Season Preci			7.05
NOAA An Precipita	nual	12		OAA Avg C Season Preci			9.81
Disturbances Animal	Use:	Oil and gas roads/pipelin Roads that were built wit eroding badly. Large gul washed out. No livestock observed in	thout w lies are	ater turnouts present whe	s or a cro	have comple	
Part 2. Attri	butes	s and Indicators					
			Departure from Ecological Site Description/Ecological Reference Areas				
Attribute I	ndica	ntors	Extrem	treme Moderate to Extreme Moderate		e Slight to Moderate	None to Slight
S H	Rills				X		

Comments:	Slope and disturbances from rerills.	oads and	pipelines i	nfluence de	evelopme	nt of
SH	Water Flow Patterns			X		
Comments:	Influenced by conditions up sle	ope.				
SH	Pedestals and/or Terracettes			X		
Comments:	Towards extreme, very commo	on.				
SH	Bare Ground			X		
Comments:	Based on 01 monitoring.					
SH	Gullies		X			
Comments:	Heavily influenced by oil and	gas roads	and pads.			
S	Wind-scoured, Blowouts, and/or Deposition Areas				X	
Comments:						
Н	Litter Movement			X		
Comments:						
SHB	Soil Surface Resistance to Erosion			X		
Comments:	Plant interspaces vulnerable.					
SHB	Soil Surface Loss or Degradation			X		
Comments:						
Н	Plant Community Composition and Distribution Relative to Infiltration and Runoff		X			
Comments:	Towards the moderate classific	cation.				
SHB	Compaction Layer					X
Comments:	Trails and roads.					
В	Functional/Structural Groups			X		
Comments:	Mesquite and snakeweed domicomponent.	inant, thre	ee awn cor	nmon. mis	sing the g	rama
В	Plant Mortality/Decadence				X	
Comments:	Drought influenced.					
НВ	Litter Amount				X	
Comments:						
В	Annual Production			X		
Comments:	Drought influenced, also speci	es shift to	shrubs.			

В	Invasive Plants		X						
Comments:	Mesquite and snakeweed common.								
В	Reproductive Capability of Perennial Plants				X				
Comments:	Sheet flow will move seed, lowering germination possibility.								
S	Physical/Chemical/Biological Crusts					X			
Comments:	Sandy site, silt capping common.								
В	Wildlife Habitat				X				
Comments:	Generally on the breaks above the Pecos River floodplain. Habitat is more sandy and subejet to erosion. The area appears to support a mixture of grassland and shrubland type and not necessarily one or the other as with more upland sites. Habitat generally being degraded by oil and gas activity.								
В	Wildlife Populations				X				
Comments:	No specific wildlife population information. Species of concern include mule deer and upland game birds, a variety of nongame terrestrial wildlife species will also occur due to the landform and vegetative diversity. Some shift toward more of a shrubby habitat type due to mesquite invasion.								
В	Special Status Species Habitat					X			
Comments:	None known to occur. See notes for River NW #1.								
В	Special Status Species Populations					X			
Comments:	None known to occur. See not	es for Riv	er NW #1						
Part 3. Sun	nmary								
attributes be	Summary - Each of the indicate of the indicate of the indicator is placed in Standard Attributes.								
Standard Attribute		Extreme	Moderate to Extreme	Moderate	Slight to Moderate	None to Sligh			
S	Soil	0	1	6	1	2			
H	Hydrologic	0	2	7	1	1			
В	Biotic	0	1	4	5	3			

B. Attribute Summary. In this table, the Extreme and Extreme to Moderate columns in the table above are merged for the *Does not Meet* column, Moderate becomes *Mav Need*

More Info, and Slight to Moderate and None to Slight merge to form the Meets columns. Values from the table are summarized below. Space is provided for rationale of the determination. This space should most certainly be used when the determination by the ID team conflicts with the summarized values. Provide the sources of information that lead to the determination. X out the appropriate box for each attribute to denote final agreed upon determination by the ID team.

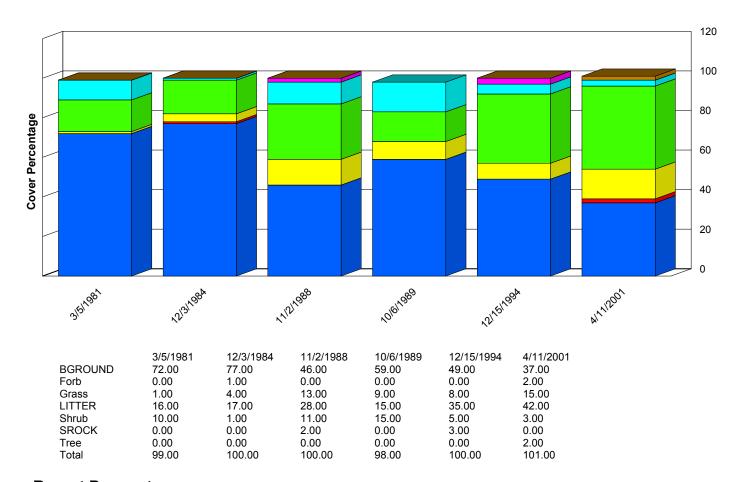
Attribute	Rationale	Does Not Meet	May Need More Info	Meets
Soil	Thew uplands and biotic indicators show the problem areas as relating to soil erosion, ground cover and invasive species. This area is heavily influenced by roads, pipelines and drill pads. Many of the erosion probelems can be related to poor initial road construction techniques and a lack of maintanence. Invasive plants such as mesquite and snakeweed have become dominant which influences hydrologic functions and inhibit herbaceous vegetative growth.	1	6	3
Hydrologic		2	7	2
Biotic		1	4	8

Site Notes: Recent rain prior to evaluation showed hydrologic functions well.

This area is definitely influenced by oil and gas roads. Observed large gullies driving into the monitoring site.

Good candidate for mesquite control. Adequate herbaceous species for seed and fair amounts of four-wing salt bush.

Ground Cover Trends



Tree SROCK Shrub

LITTER
Grass
Forb

BGROUND

Report Parameters

SITE NAME LIKE ON/AFTER ON/BEFORE 65036-EAST-D088 10/01/1980 09/30/2001

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Functional / Structural Groups

Report Parameters

SITE NAME LIKE 65036-EAST-D088

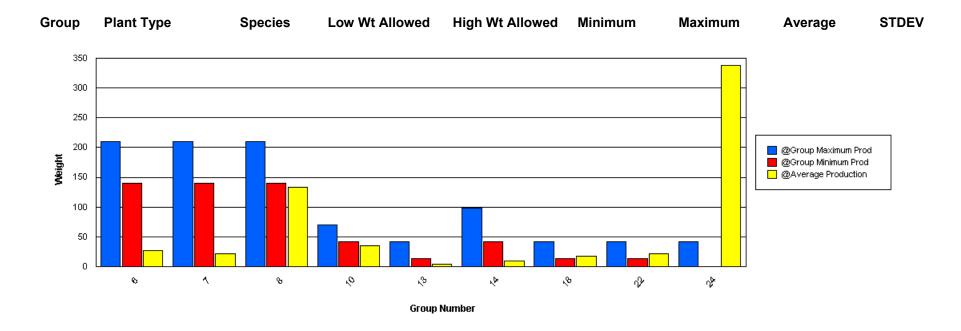
ON/AFTER 10/01/1980 ON/BEFORE 09/30/2002

MIN LBS TO GRAPH 3

SELECTED ECOSITE 042CY003NM

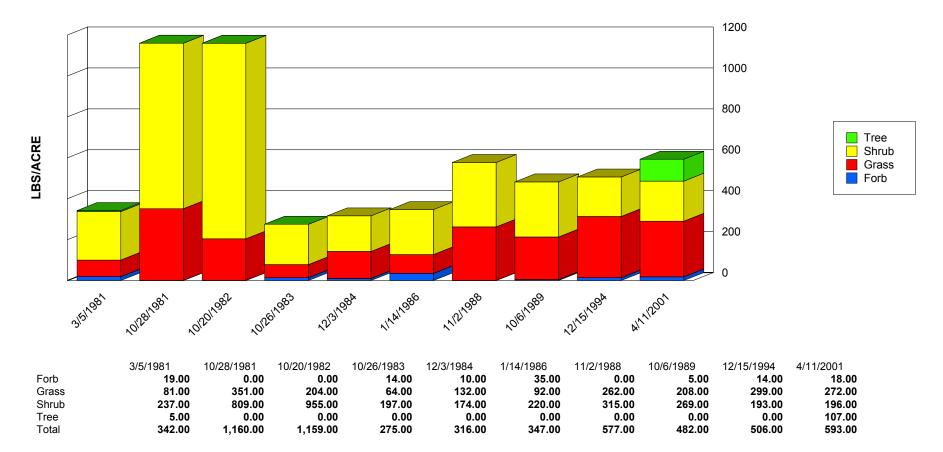
Group	Plant Type	Species	Low Wt Allowed	High Wt Allowed	Minimum	Maximum	Average	STDEV
6	Grass	MUPO2	140	210	0.00	65.00	26.80	20.51
7	Grass	SEMA5	140	210	0.00	58.00	21.90	18.69
8	Grass	SPCO4	140	210	0.00	84.00	22.50	29.38
8	Grass	SPCR	140	210	0.00	160.00	65.63	45.32
8	Grass	SPFL2	140	210	0.00	169.00	45.56	58.37
10	Grass	ARIST	42	70	0.00	107.00	35.60	34.48
12	Grass	AAGG	70	140	0.00	3.00	0.60	1.20
12	Grass	BOBA2	70	140	0.00	3.00	1.00	1.41
13	Grass	ERPU8	14	42	0.00	16.00	4.22	4.87
14	Forb	CROTO	42	98	0.00	30.00	8.11	9.83
14	Forb	CRPO5	42	98	0.00	14.00	2.00	4.58
14	Forb	MELE2	42	98	0.00	1.00	0.14	0.35
16	Forb	AAFF	42	98	0.00	9.00	1.90	3.14
16	Forb	SENEC	42	98	0.00	4.00	0.57	1.40
17	Forb	LEMO2	14	42	0.00	1.00	0.13	0.33
18	Shrub	ATCA2	14	42	0.00	112.00	17.20	32.21
22	Tree	YUEL	14	42	0.00	107.00	22.40	42.34
24	Shrub	GUSA2	0	42	0.00	510.00	163.70	162.08
24	Shrub	PRGL2	0	42	0.00	449.00	173.80	126.82

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Production Lbs/Acre Trends



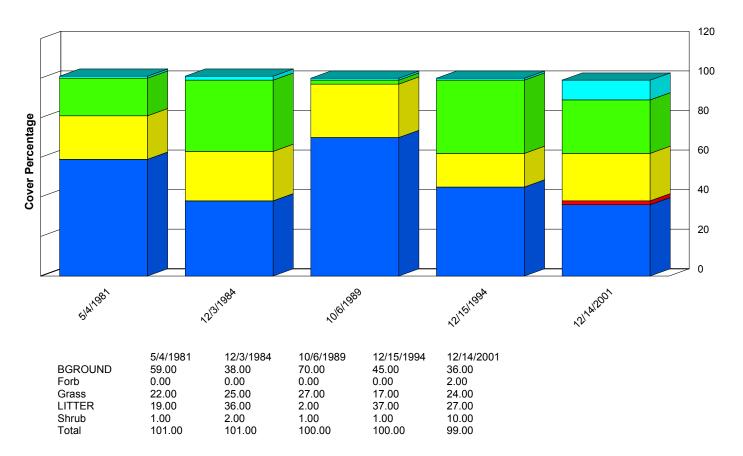
Report Parameters

SITE NAME LIKE 65036-EAST-D088

ON/AFTER 10/01/1980 ON/BEFORE 09/30/2001

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Ground Cover Trends



Shrub
LITTER

Grass
Forb
BGROUND

Report Parameters

SITE NAME LIKE 65036-FRAZIER GYP SW-D086 ON/AFTER 10/01/1980

ON/AFTER 10/01/1980 ON/BEFORE 09/30/2002

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Functional / Structural Groups

Report Parameters

SITE NAME LIKE 65036-FRAZIER GYP SW-D086

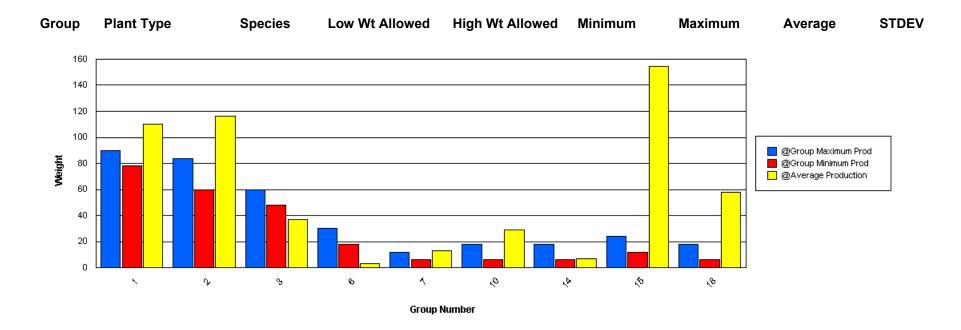
ON/AFTER 10/01/1980 ON/BEFORE 09/30/2002

MIN LBS TO GRAPH 3

SELECTED ECOSITE 070BY066NM

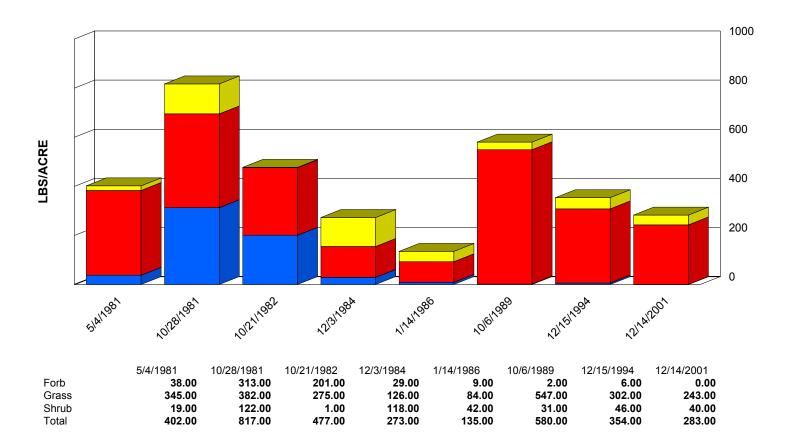
Group	Plant Type	Species	Low Wt Allowed	High Wt Allowed	Minimum	Maximum	Average	STDEV
1	Grass	BOBR	78	90	17.00	199.00	90.88	62.44
1	Grass	BOER4	78	90	0.00	69.00	19.43	22.76
2	Grass	BOGR2	60	84	10.00	68.00	34.00	18.77
2	Grass	SPNE	60	84	0.00	184.00	82.00	70.82
3	Grass	HIMU2	48	60	0.00	108.00	37.00	38.72
6	Grass	ARIST	18	30	0.00	9.00	3.00	4.24
7	Grass	ERPU8	6	12	0.00	26.00	8.43	10.55
7	Grass	SPCR	6	12	0.00	14.00	4.33	4.78
10	Grass	MUAR	6	18	0.00	65.00	10.86	22.18
10	Grass	SCBR2	6	18	0.00	28.00	9.33	10.29
10	Grass	STNE2	6	18	0.00	34.00	6.80	13.60
10	Grass	TRMU	6	18	0.00	2.00	0.33	0.75
10	Grass	TRPI2	6	18	0.00	5.00	1.80	2.23
14	Forb	LEMO2	6	18	0.00	21.00	6.75	8.58
15	Forb	AAFF	12	24	0.00	32.00	6.50	11.49
15	Forb	PECTI	12	24	0.00	179.00	89.50	89.50
15	Forb	PEPA2	12	24	0.00	313.00	58.50	114.28
18	Shrub	GUSA2	6	18	1.00	122.00	48.13	42.88
18	Shrub	OPUNT	6	18	2.00	18.00	10.00	8.00

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Production Lbs/Acre Trends



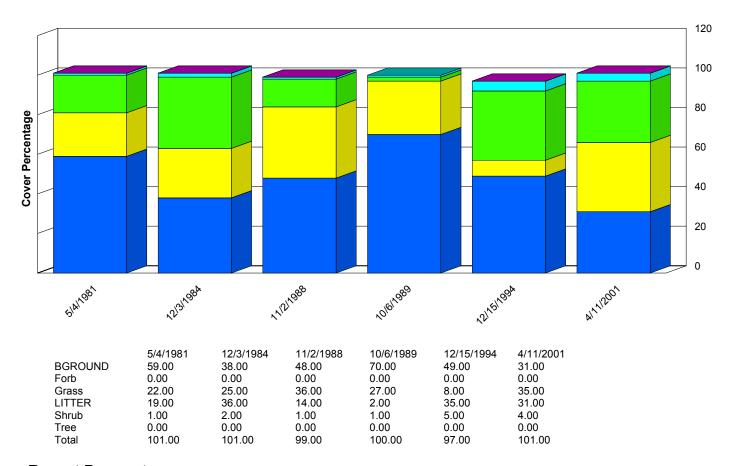
Shrub
Grass
Forb

Report Parameters

SITE NAME LIKE 65036-FRAZIER GYP SW-D086

ON/AFTER 10/01/1980 ON/BEFORE 09/30/2002

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Tree Shrub

LITTER
Grass
Forb
BGROUND

Report Parameters

SITE NAME LIKE 65036-FRAZIER LO-SW-D087 ON/AFTER 10/01/1980 ON/BEFORE 09/30/2002

Functional / Structural Groups

Report Parameters

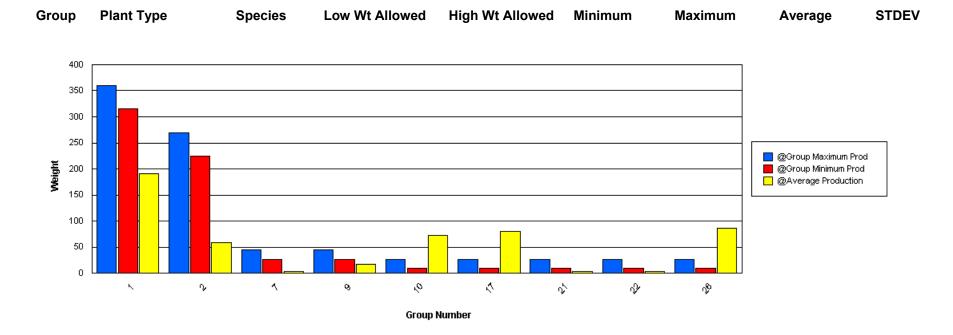
SITE NAME LIKE 65036-FRAZIER LO-SW-D087

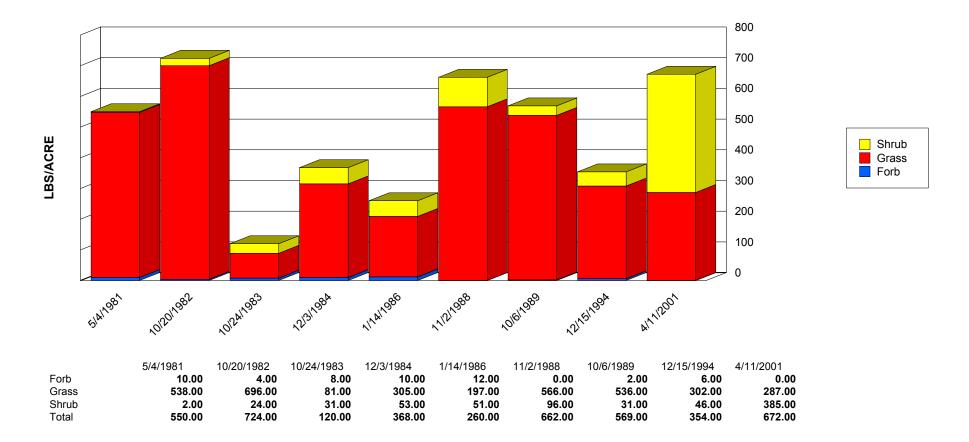
ON/AFTER 10/01/1980 ON/BEFORE 09/30/2002

MIN LBS TO GRAPH 3

SELECTED ECOSITE 042CY007NM

Group	Plant Type	Species	Low Wt Allowed	High Wt Allowed	Minimum	Maximum	Average	STDEV
1	Grass	HIMU2	315	360	0.00	429.00	121.56	153.61
1	Grass	SCBR2	315	360	2.00	137.00	70.00	55.80
2	Grass	BOER4	225	270	0.00	69.00	18.78	20.37
2	Grass	BOGR2	225	270	11.00	104.00	39.56	28.11
6	Grass	SPAI	27	45	0.00	12.00	2.00	4.47
7	Grass	ARIST	27	45	0.00	3.00	0.43	1.05
7	Grass	SPCR	27	45	0.00	7.00	2.88	2.26
9	Grass	MUAR	27	45	0.00	32.00	12.13	14.23
9	Grass	MUAR2	27	45	0.00	11.00	4.63	4.12
10	Grass	BOBR	9	27	0.00	188.00	71.86	65.17
14	Grass	TRMU	9	27	0.00	10.00	2.75	4.21
17	Grass	ERPU8	9	27	0.00	25.00	5.88	7.66
17	Grass	MUTO2	9	27	0.00	11.00	5.50	5.50
17	Grass	SPFL2	9	27	0.00	7.00	1.40	2.80
17	Grass	SPNE	9	27	0.00	222.00	67.57	88.97
19	Forb	PENA	9	27	0.00	2.00	0.50	0.87
19	Forb	PHACE	9	27	0.00	2.00	1.00	1.00
21	Forb	LEMO2	9	27	0.00	4.00	2.00	2.00
21	Forb	LEPID	9	27	0.00	6.00	1.00	2.24
22	Forb	AAFF	9	27	0.00	10.00	2.89	3.54
22	Forb	PEPA2	9	27	0.00	6.00	1.00	2.24
24	Forb	EUPHO	9	27	0.00	1.00	0.50	0.50
24	Forb	MELE2	9	27	0.00	2.00	0.29	0.70
24	Forb	TAAU	9	27	0.00	1.00	0.50	0.50
26	Shrub	GUSA2	9	27	2.00	72.00	31.11	21.79
26	Shrub	OPUNT	9	27	0.00	380.00	54.88	123.16

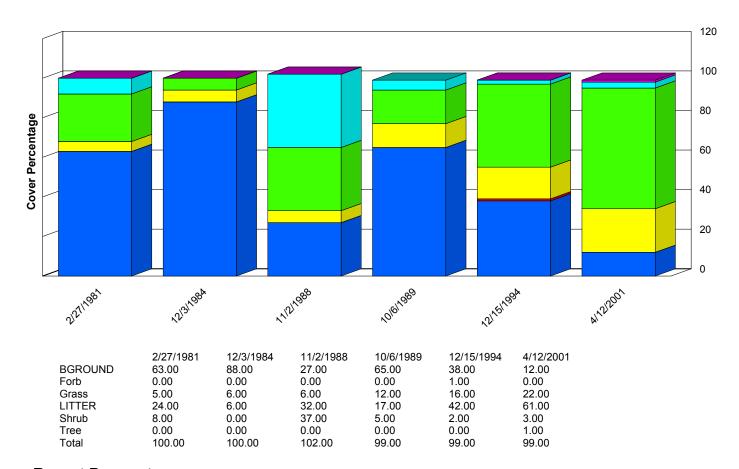




Report Parameters

SITE NAME LIKE 65036-FRAZIER LO-SW-D087

ON/AFTER 10/01/1980 ON/BEFORE 09/30/2002



Tree Shrub

LITTER
Grass
Forb
BGROUND

Report Parameters

SITE NAME LIKE 65036-REGISTERED-D085

ON/AFTER 10/01/1980 ON/BEFORE 09/30/2002

Functional / Structural Groups

Report Parameters

SITE NAME LIKE 65036-REGISTERED-D085

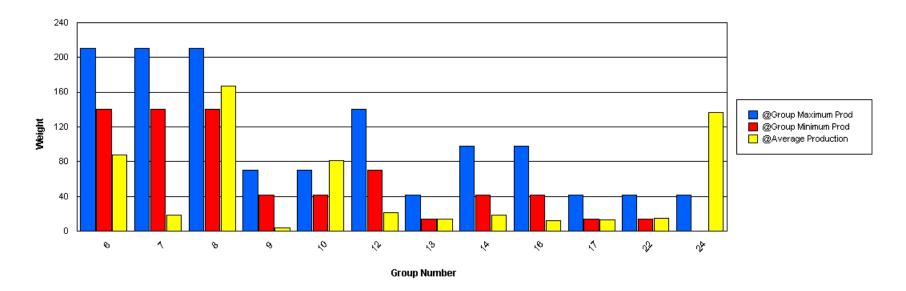
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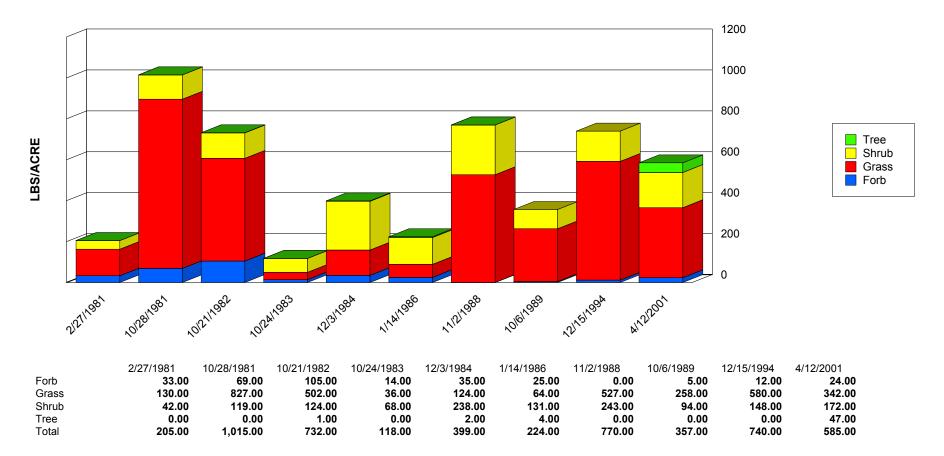
MIN LBS TO GRAPH 3

SELECTED ECOSITE 042CY003NM

Group	Plant Type	Species	Low Wt Allowed	High Wt Allowed	Minimum	Maximum	Average	STDEV
6	Grass	BOER4	140	210	16.00	22.00	19.00	3.00
6	Grass	MUPO2	140	210	0.00	185.00	68.40	62.55
7	Grass	SEMA5	140	210	0.00	68.00	18.75	26.35
8	Grass	SPCO4	140	210	0.00	105.00	22.50	37.61
8	Grass	SPCR	140	210	0.00	326.00	112.80	94.97
8	Grass	SPFL2	140	210	0.00	185.00	32.00	59.72
9	Grass	CHCU2	42	70	0.00	14.00	3.67	5.09
10	Grass	ARIST	42	70	0.00	225.00	81.30	69.09
12	Grass	AAGG	70	140	0.00	15.00	3.00	6.00
12	Grass	BOBA2	70	140	0.00	3.00	1.00	1.41
12	Grass	CEPA7	70	140	0.00	50.00	16.67	23.57
12	Grass	ERCI	70	140	0.00	1.00	0.50	0.50
13	Grass	BOBA3	14	42	0.00	2.00	0.33	0.75
13	Grass	BOGR2	14	42	0.00	13.00	5.80	5.42
13	Grass	CHLOR	14	42	0.00	2.00	0.29	0.70
13	Grass	ERPU8	14	42	0.00	16.00	2.57	5.53
13	Grass	MUAR2	14	42	0.00	8.00	1.50	2.93
13	Grass	PAOB	14	42	0.00	7.00	2.00	2.92
13	Grass	PARA2	14	42	0.00	7.00	0.88	2.32
13	Grass	TRPI2	14	42	0.00	2.00	1.00	1.00
14	Forb	CROTO	42	98	0.00	60.00	15.67	17.78
14	Forb	CRPO5	42	98	0.00	15.00	2.75	5.17
14	Forb	MELE2	42	98	0.00	3.00	0.50	1.00
16	Forb	AAFF	42	98	0.00	22.00	6.40	8.13
16	Forb	ERIOG	42	98	0.00	14.00	4.67	6.60
16	Forb	LESQU	42	98	0.00	3.00	1.00	1.41

Group	Plant Type	Species	Low Wt Allowed	High Wt Allowed	Minimum	Maximum	Average	STDEV
17	Forb	LEFE	14	42	0.00	24.00	3.25	7.87
17	Forb	LEMO2	14	42	0.00	7.00	1.00	2.29
17	Forb	MEST3	14	42	0.00	21.00	5.25	9.09
17	Forb	PPFF	14	42	0.00	7.00	2.00	2.52
17	Forb	SOEL	14	42	0.00	6.00	2.00	2.83
22	Shrub	YUCCA	14	42	6.00	10.00	8.00	2.00
22	Tree	YUEL	14	42	0.00	47.00	6.75	15.27
24	Shrub	GUSA2	0	42	2.00	243.00	66.10	81.91
24	Shrub	PRGL2	0	42	0.00	168.00	70.20	49.28

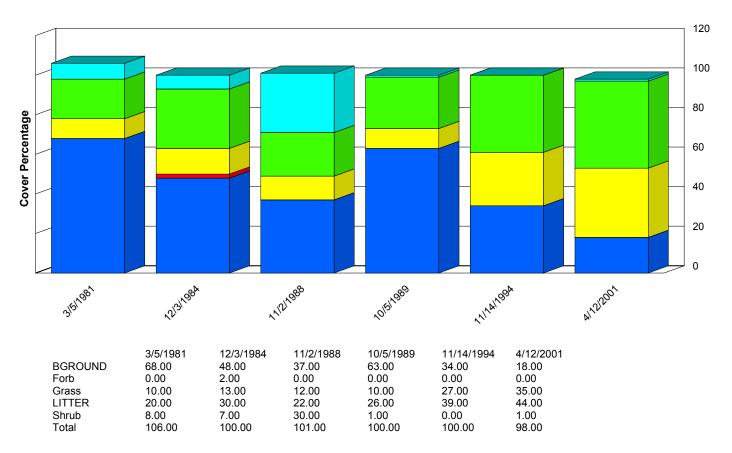




Report Parameters

SITE NAME LIKE 65036-REGISTERED-D085

ON/AFTER 10/01/1980 ON/BEFORE 09/30/2002



Shrub

Grass
Forb
BGROUND

Report Parameters

SITE NAME LIKE ON/AFTER ON/BEFORE 65036-RIVER NW #1-D084 10/01/1980 09/30/2002

Functional / Structural Groups

Report Parameters

SITE NAME LIKE 65036-RIVER NW #1-D084

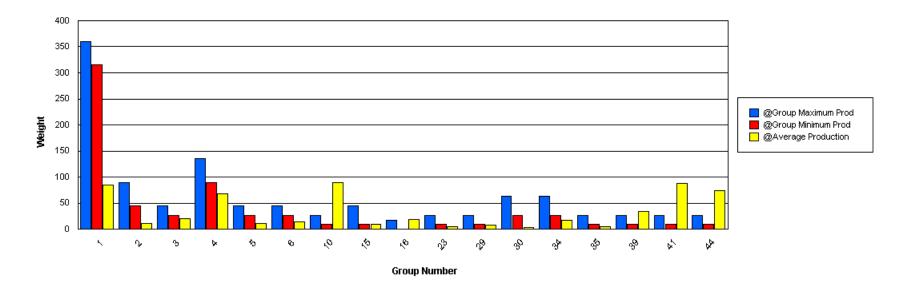
ON/AFTER 10/01/1980 ON/BEFORE 09/30/2002

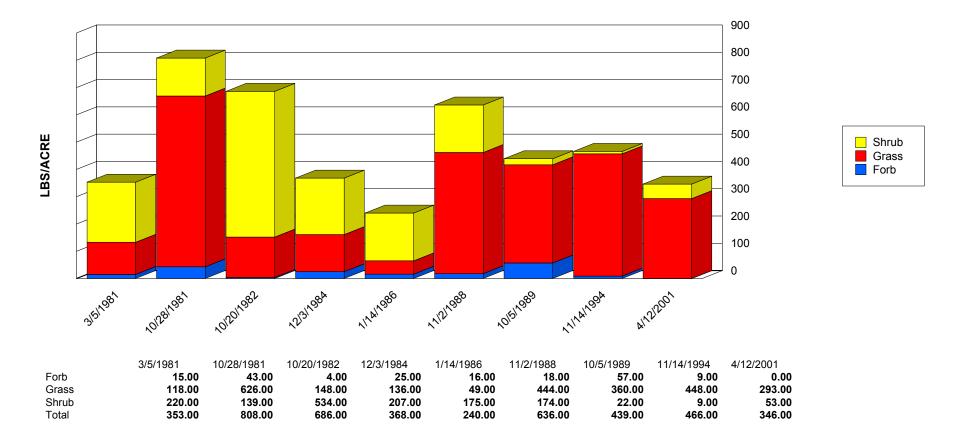
MIN LBS TO GRAPH 3

SELECTED ECOSITE 042CY004NM

Group	Plant Type	Species	Low Wt Allowed	High Wt Allowed	Minimum	Maximum	Average	STDEV
1	Grass	BOER4	315	360	16.00	215.00	84.56	69.49
2	Grass	BOGR2	45	90	0.00	33.00	10.44	9.63
3	Grass	MUPO2	27	45	0.00	58.00	19.63	18.99
4	Grass	SPCO4	90	135	0.00	42.00	13.00	15.47
4	Grass	SPCR	90	135	2.00	153.00	55.56	56.84
5	Grass	ARIST	27	45	0.00	48.00	11.56	15.05
6	Grass	SEMA5	27	45	0.00	58.00	13.50	18.05
9	Grass	PAOB	9	27	1.00	2.00	1.50	0.50
10	Grass	HIJA	9	27	0.00	143.00	43.75	58.77
10	Grass	HIMU2	9	27	0.00	120.00	45.89	42.39
15	Grass	AAGG	9	45	2.00	14.00	8.00	6.00
15	Grass	BOAR	9	45	0.00	6.00	1.50	2.60
15	Grass	BOBA2	9	45	0.00	1.00	0.33	0.47
16	Grass	BOBR	0	18	9.00	33.00	18.67	10.34
23	Grass	MUAR2	9	27	0.00	23.00	5.33	7.42
26	Grass	SCBR2	9	27	0.00	10.00	2.38	3.67
29	Grass	ERPU8	9	27	0.00	27.00	7.22	10.37
29	Grass	PANIC	9	27	0.00	1.00	0.33	0.47
30	Forb	CROTO	27	63	0.00	8.00	2.14	2.70
30	Forb	MELE2	27	63	0.00	6.00	1.00	2.24
32	Forb	LEFE	27	63	0.00	12.00	2.57	4.37
34	Forb	AAFF	27	63	0.00	52.00	9.56	16.38
34	Forb	DYPE	27	63	0.00	10.00	1.83	3.67
34	Forb	PEPA2	27	63	0.00	21.00	5.25	9.09
35	Forb	LEPID	9	27	0.00	10.00	2.83	4.10
35	Forb	PENA	9	27	0.00	3.00	1.40	1.02

Group	Plant Type	Species	Low Wt Allowed	High Wt Allowed	Minimum	Maximum	Average	STDEV
35	Forb	SOEL	9	27	0.00	2.00	0.80	0.75
39	Shrub	ATCA2	9	27	0.00	181.00	33.56	54.38
41	Shrub	GUSA2	9	27	0.00	174.00	88.13	68.31
44	Shrub	PRGL2	9	27	0.00	251.00	74.86	96.31

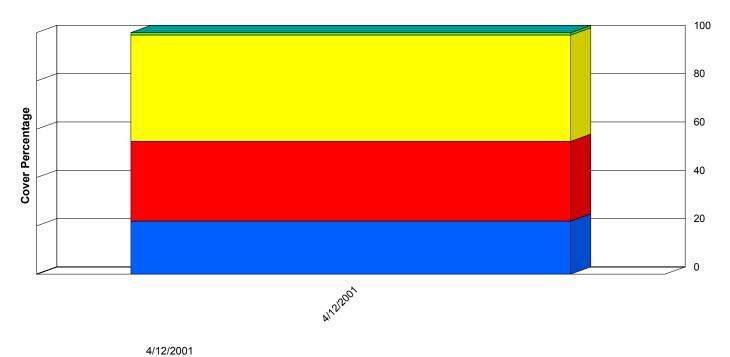




Report Parameters

SITE NAME LIKE 65036-RIVER NW #1-D084

ON/AFTER 10/01/1980 ON/BEFORE 09/30/2002



BGROUND		Tree Shrub LITTER Grass BGROUND	
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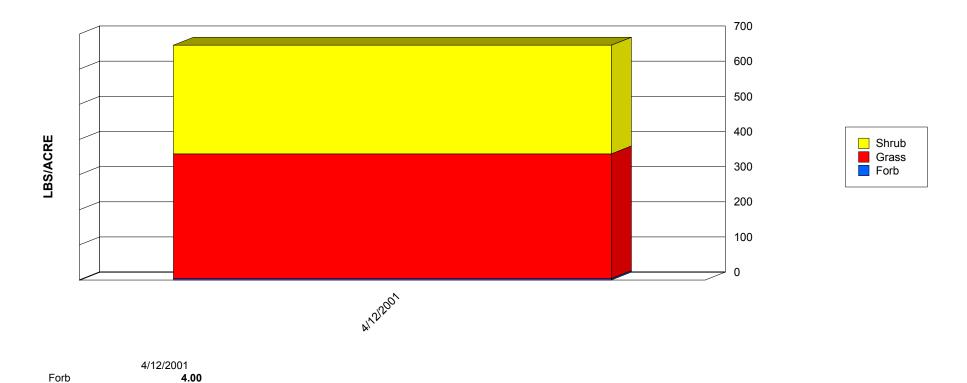
4/12/200
22.00
33.00
44.00
1.00
0.00
100.00

Report Parameters

 SITE NAME LIKE
 65036-RIVER NW #2-N006

 ON/AFTER
 10/01/1980

 ON/BEFORE
 09/30/2002



Report Parameters

Grass Shrub

Total

SITE NAME LIKE 65036-RIVER NW #2-N006

355.00

309.00

668.00

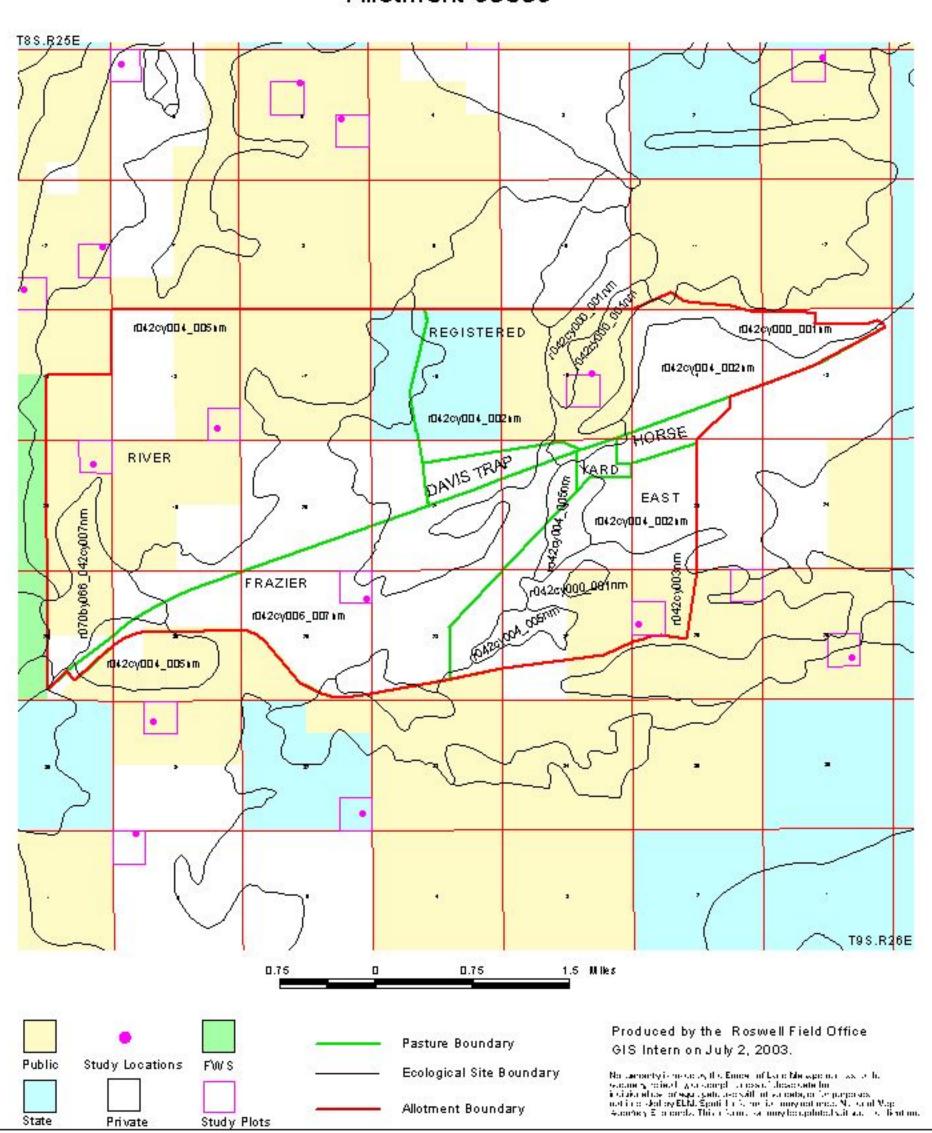
ON/AFTER 10/01/1980 ON/BEFORE 09/30/2002



Rangeland Health Assessment Ecological Sites



Allotment 65036





Rangeland Health Assessment Soil Mapping Units



Allotment 65036

